5-13-05

PATENT COOPERATION TREATY





INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

526,893

(PCT Article 36 and Rule 7 PCT/PTO 0 4 MAR 2005

Applicant's or agent's file reference		O I WITH
PCT02082	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No.	International filing date (day/mo	
PCT/JP2003/011359	05 September 2003 (05.0	9.2003) 05 September 2002 (05.09.2002)
International Patent Classification (IPC) or n A61B 10/00	ational classification and IPC	
Applicant H	ITACHI MEDICAL CORE	ORATION
This report is the international prelin Authority under Article 35 and trans	ninary examination report, establi mitted to the applicant according	shed by this International Preliminary Examining to Article 36.
2. This REPORT consists of a total of		this cover sheet.
3. This report is also accompanied by A		
a. (sent to the applicant and	to the International Bureau) a tot	al of sheets, as follows:
and/or sheets cont Administrative Ins	aining rectifications authorized betructions).	hich have been amended and are the basis of this report y this Authority (see Rule 70.16 and Section 607 of the
sheets which supe beyond the disclos Supplemental Box	sure in the international application	is Authority considers contain an amendment that goe on as filed, as indicated in item 4 of Box No. I and the
	, containing a seq	indicate type and number of electronic carrier(s) uence listing and/or tables related thereto, in compute Relating to Sequence Listing (see Section 802 of the
4. This report contains indications relat	ing to the following items:	
Box No. I Basis of the rep	oort .	
Box No. II Priority		
Box No. III Non-establishn	nent of opinion with regard to nov	elty, inventive step and industrial applicability
Box No. IV Lack of unity of	f invention	
Box No. V Reasoned state citations and ex	ment under Article 35(2) with reg	ard to novelty, inventive step or industrial applicability
Box No. VI Certain docume		
Box No. VII Certain defects	in the international application	
Box No. VIII Certain observa	tions on the international applica	ion
Date of submission of the demand	Date of co	ompletion of this report
02 April 2004 (02.04.20	004)	04 August 2004 (04.08.2004)
Name and mailing address of the IPEA/JP	Authorize	d officer
Facsimile No.	Telephon	e No.

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



Box No.	. I	Basis of the report		
1. With other	regard wise in	to the language, this report is based on the international application in the language in which it was filed, unless adicated under this item.		
	This whic	report is based on translations from the original language into the following language, h is language of a translation furnished for the purpose of:		
		international search (under Rules 12.3 and 23.1(b))		
		publication of the international application (under Rule 12.4)		
		international preliminary examination (under Rules 55.2 and/or 55.3)		
furnis	shed to re not	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report):		
		nternational application as originally filed/furnished		
▮╚		escription:		
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	a sem	nence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.		
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3		mendments have resulted in the cancellation of:		
	=	the description, pages		
		the claims, Nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
	any table(s) related to sequence listing (specify):			
'	made, (Rule	eport has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 70.2(c)). the description, pages		
	$\overline{}$			
		the claims, Nos		
		the drawings, sheets/figs		
		the sequence listing (specify):		
	LJ '	any table(s) related to sequence listing (specify):		
# TC+-	,			
If item	4 арр	lies, some or all of those sheets may be marked "superseded."		

v.	Descend statement
١.,	Reasoned statement under Article 35(2) with regard to novelty inventive standard and the standard article 35(2) with regard to novelty inventive standard article 35(2) with regard to novelty.
ľ	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 -	The supporting such statement

Claims	1-17	YES
Claims		— NO
Claims	6-8, 11, 12, 14-17	– YES
Claims	1-5, 9, 10, 13	 NO
Claims	1-17	– YES
Claims		NO
	Claims Claims Claims Claims	Claims 1-17 Claims 6-8, 11, 12, 14-17 Claims 1-5, 9, 10, 13 Claims 1-17

2. Citations and explanations

Document 1: JP 9-98972 A (Hitachi, Ltd.), 15 April 1997

Document 2: JP 2000-237194 a (Hitachi, Ltd.), 5 September 2000

Document 3: JP 9-231366 A (Oki Electric Industry Co., Ltd.), 5 September 1997

Document 4: JP 2002-522837 A (Aspen Technology, Inc.), 23 July 2002

Document 5: JP 2001-336975 A (Fuji Xerox Co., Ltd.), 7 December 2001

Claims 1 to 5, 9, 10, 13

Documents 1 and 2 disclose a photometric device for a living body that calculates a load signal from the difference between a measured signal and a predicted noload signal, and investigates activity in a functional area of the brain by locally measuring change in a given functional area of the brain.

Meanwhile, documents 3 to 5 disclose features such as a technique wherein principal component analysis is carried out on multi-dimensional data, and the contribution of each characteristic vector is calculated, and the cumulative contribution is calculated.

Further, a person skilled in the art could easily combine features disclosed in documents 1 to 5.

Claims 6 to 8, 12

A living body photometric device provided with a means which generates a stimulus reaction reference pattern indicating the reaction of a living body to task stimulus, superimposes the pattern on a stimulus task signal waveform, and displays the result on a display means is not disclosed in any of the documents cited in the international search report, nor would it be obvious to a person skilled in the art.

Claim 11

A photometric device provided with a means which calculates the total average value of values representing the proportion of a stimulus task signal that is made up by each of a plurality of calculated measurement data, and displays the calculated total average value near a graph is not disclosed in any of the documents cited in the international search report, nor would it be obvious to a person skilled in the art.

Claim 14

A photometric device provided with a means which separates the calculated contribution for individual measured signals into a right-side cranial component and a left-side cranial component and calculates the total average is not disclosed in any of the documents cited in the international search report, nor would it be obvious to a person skilled in the art.

Claims 15 to 17

A photometric device provided with a calculation means which uses an average value for the right-side cranium and a total average value for the left-side cranium to calculate degree of hemispheric dominance

indicating which of the left and right hemispheres of the brain of a subject reacts dominantly to a stimulus task is not disclosed in any of the documents cited in the international search report, nor would it be obvious to a person skilled in the art.